

DYNAMIC REAL-TIME QUALITY MANAGEMENT OF  
PACKETIZED COMMUNICATIONS IN A NETWORK ENVIRONMENT

ABSTRACT OF THE DISCLOSURE

5     The present invention provides a dynamic real-time quality  
management of packetized communications in a network  
environment. Packetized communications are monitored by and  
exchanged between wireless Access Points (APs) and wireless  
terminals or by quality monitoring modules located within  
10    network segments or at network vertices. The processing unit  
analyzes the packetized communications to identify  
communication signatures associated with the packetized  
communications. The processor then uses these signatures to  
identify network impediments to the exchange of the packetized  
15    communications. These impediments may take the form of coding  
problems in which case an appropriate coding scheme is  
employed by the programmable COder/DECoder (CODEC) to convert  
incoming packetized communications to incoming user  
communications, and outgoing user communications to outgoing  
20    packetized communications. These impediments may also take  
the form of communication problems along and between the  
various network segments. In these cases, the processor may  
choose a more appropriate communication pathway with which to  
route the packetized communications.